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THOMSON

THS220
Digital High Definition Satellite Receiver

User manual
Bedienungsanleitung
Manuel d'utilisation
Manuale d'uso
Руководство пользователя

Look, Listen & Live

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Fig. 1

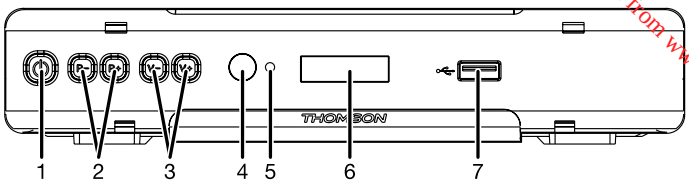

Fig. 2

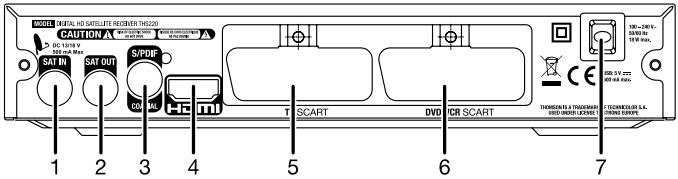

Fig. 3

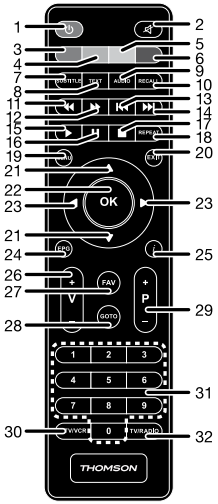

Fig. 4

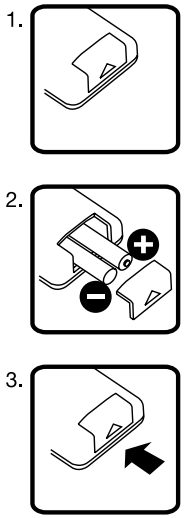

Fig. 5

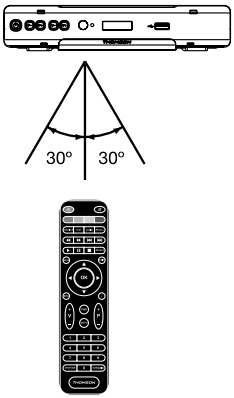

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Fig. 6

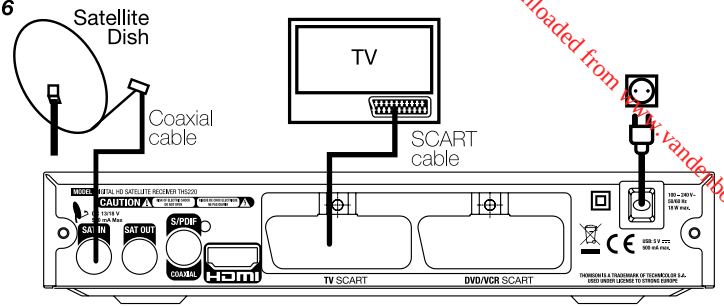


Fig. 7

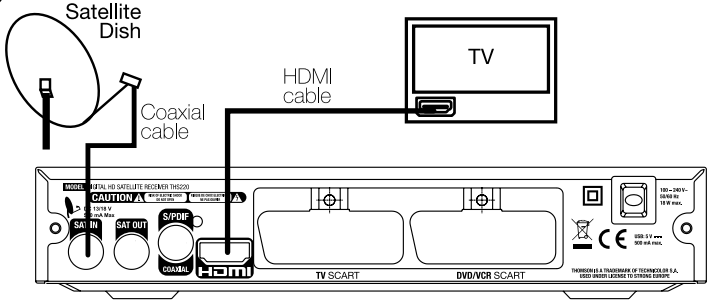
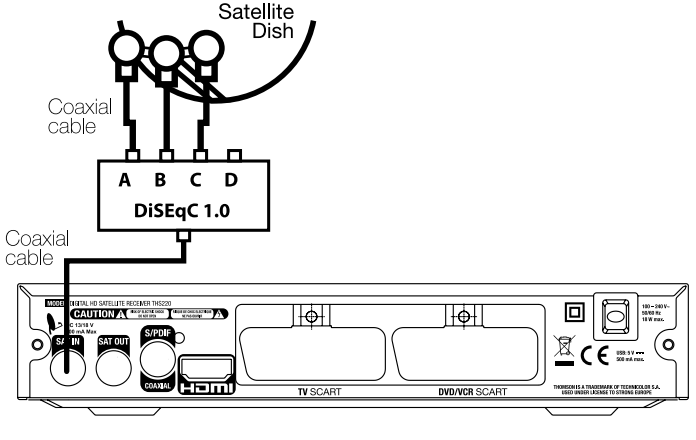


Fig. 8



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English

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THOMSON declares that this item complies with the basic requirements and other relevant regulations of directives CE 2004/108/EC and 73/23EEC; RoHS 2002/95/EC

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1.0 INSTRUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety Precautions

- Never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.
  If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with

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its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and your antenna.
- Make sure that the SCART/HDMI cable and outdoor components are in a good condition and the SCART/HDMI connections are well shielded and from good quality.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follows.

WARNING: *Indicates warning information.*

NOTE: *Indicates any other additional important or helpful information.*

MENU (Bold Characters) Represents a button on the remote control or the receiver.

Move to (*Italic Characters*) Represents a menu item within a window.

1.4 Accessories

- 1 User Manual
- 1 Remote control unit
- 2x Batteries (AAA type)

NOTE: *The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.*

1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices. If your device is not compatible to USB 2.0 specifications, multimedia functions of the receiver might not work properly.
- THOMSON cannot guarantee compatibility with all types of USB storage devices.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. THOMSON will not take responsibility for any loss of information or circumstances caused by loss of information.
- Please ensure that either the USB device is already formatted to FAT/FAT32, or format the USB device via your receiver, refer to chapter **7.7 USB** for details.

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2.0 YOUR RECEIVER

2.1 PIN code default: 0000

2.2 Front panel

Fig. 1

1. Standby/on button:	To turn the unit ON or to standby mode.
2. Channel up/down	To change channels without using the remote control
3. Volume up/down	To change volume without using the remote control
4. Remote control sensor:	Receives the signal from the remote control
5. Standby indicator:	Shows power state of the receiver Green LED - receiver is turned on Red LED - receiver is in standby mode
6. LED display:	Shows channel number in operation and time in Standby
7. USB	For connection of external storage devices

2.3 Rear panel

Fig. 2

1. SAT IN	To connect to the LNB of your satellite dish for reception of satellite broadcast signal
2. SAT OUT	To loop through the satellite signal to a second receiver
3. S/PDIF	To connect to a digital or home cinema audio amplifier
4. HDMI	To connect to the HDMI input of your TV using a good quality HDMI cable.
5. TV SCART	To connect to TV using a SCART cable
6. DVD/VCR SCART	To connect to a Video or DVD recorder
7. Power cord	The receiver requires a mains voltage of 100~240V AC 50~60Hz (auto selecting). Please check the local power conditions before connecting the receiver to the mains supply.

2.4 Remote Control

Fig. 3

1. ⏻	Turns the receiver ON/standby
2. 🔇	To turn the sound on or off
3. RED	Alphabetic search of channels in channel list mode; several functions in the OSD menu and Teletext
4. GREEN	In viewing mode: changes the resolution of the HDMI output between 1080p, 1080i, 720p, 576p and 576i; several functions in the OSD menu and Teletext.

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5. YELLOW	In viewing mode: changes the aspect ratio and aspect conversion of video outputs; several functions in the OSD menu and Teletext
6. BLUE	In viewing mode: displays the schedule menu for easy setup of timers; several functions in the OSD menu and Teletext.
7. SUBTITLE	To select one of the available subtitles languages for the current channel
8. TEXT	To open Teletext if available on the current channel
9. AUDIO	Displays the audio selection menu for available languages and audio modes
10. RECALL	To switch between the last viewed channels
11. ◀◀	Searches backwards during playback. Each pressing increases the speed (x2 – x32)
12. ▶▶	Searches forwards during playback. Each pressing increases the speed (x2 – x32)
13. ⏮	Jumps to the previous file during playback
14. ⏭	Jumps to the next file during playback
15. ▶	Starts/resumes playback
16. ⏸	Freezes/resumes playback of multimedia files
17. ■	Stops playback of multimedia files
18. REPEAT	Selects different repeat modes during playback
19. MENU	To open the main menu in viewing mode or to go one step back in the menu
20. EXIT	Go one step back in the menu/cancellation of current process/exit from the main menu to viewing mode
21. ▲▼	Switches to the next/previous channel in viewing mode, switches to the next/previous page in the channel list or moving the highlight up/down in the menu.
22. OK	Viewing mode: displays the channel list. Menu: activation of the highlighted item
23. ◀▶	Decreases/increases the volume level in viewing mode/navigating through the menus/changing values of settings in a menu
24. EPG	Viewing mode: displays the EPG (Electronic Programme Guide)
25. *i*	Press once to display channel number/name and current/next info. Press twice to display detailed event info and transponder/signal strength information. Press again – back to viewing mode
26. VOL+/-	Increases/decreases the volume level in TV mode
27. FAV	To access your favourite channels. Toggles between available favourite groups

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28. GOTO	In playback mode: opens the time banner for selecting the moment where to jump to
29. P +/-	Switches to the previous/next programme in TV mode
30. DTV/VCR	Switches to VCR input if the receiver is in DTV state. Switches to DTV if it is in VCR state
31. 0-9	Channel number and numeric value input
32. TV/RADIO	Toggles between TV and radio mode

2.5 Installing the Batteries

Fig. 4

Remove the battery cover from the remote control and put 2x AAA size batteries inside the compartment.
The diagram inside the battery compartment shows the correct way to install the batteries.

1. Open the cover
2. Install batteries
3. Close the cover

NOTE: *The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.*

2.6 Using the remote control

Fig. 5

To use the remote control, point it towards the front of the digital receiver. The remote control has a range of up to 7 metres from the receiver, if properly aligned towards the IR eye on the front panel.
The remote control will not operate if its path is blocked.

NOTE: *Sunlight or very bright light (such as TL lighting) might decrease the sensitivity of the remote control.*

3.0 CONNECTIONS

3.1 Basic connection using a Scart cable

Fig. 6

a. Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
b. Connect one end of a good quality Scart cable to the TV SCART connector on your receiver and the other end to the SCART input of your TV.
c. Plug the power cord to a suitable wall outlet.

3.2 Basic connection using an HDMI cable

Fig. 7

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a. Connect the LNB of your satellite antenna to the SAT IN connector of your receiver using a good quality coax cable and suitable 'F-connector' plugs.
b. Connect one end of a good quality HDMI cable to the HDMI output on your receiver and the other end to the HDMI input of your TV.
c. Plug the power cord to a suitable wall outlet.

3.3 Connecting multiple fixed LNBs using a DiSEqC 1.0 switch

Fig. 8

a. Connect the LNBs of your fixed antenna to the inputs of a DiSEqC 1.0 switch
b. Connect the output or "to receiver" connector of the DiSEqC 1.0 switch to the SAT IN connector on your receiver.
c. Refer to section 3.1 or 3.2 for TV and mains connections.

4.0 FIRST TIME INSTALLATION

After all connections have been made properly, turn on your TV and make sure the receiver is connected to the main power. If you are using the receiver for the first time or restored it to factory default, the *First Installation* menu will appear on your TV screen. Use the ◀▶ buttons to select the *OSD Language* of your preference and press **OK** to confirm. An Info page will be displayed. Read the info guide and press the ***i*** button to proceed to the next *Installation* step. You can open and close the info page again by using the ***i*** button.

NOTE: *If German is selected as language, German preset channels from ASTRA 19.2E will be installed. You can continue with the Installation menu to scan and install further channels as described below or directly go to viewing mode by pressing the* **EXIT** *button twice to start enjoying the pre-installed channels immediately.*

4.1 Installation

4.1.1 Satellite Selection

Use ▲▼ to highlight the satellite your dish is aimed at. When using a multi feed antenna with more than 1 LNB, select the satellites your antenna is adjusted for by pressing the **OK** button and set the LNBs in the DiSEqC point. The scan process will then search on all selected satellites.

4.1.2 Signal Adjust

The signal quality bar on the bottom of the screen allows you to fine tune the alignment of your antenna for optimum reception. Adjust your antenna for maximum possible signal quality. When the signal cannot be improved anymore, fix the dish on this position and press the **BLUE** button for *Scan*.

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4.1.3 Scan Mode

Use ▲▼ ◀▶ to highlight your options of choice and press **OK** to start the *Channel Search*. It is recommended to use the default settings.

4.1.4 Channel Search

Your receiver will now perform an automatic channel search. When the process has been completed, all found channels will be stored and the receiver will switch to the first channel in the channel list. You are now ready to enjoy your new receiver.

NOTE: *If no channels were found during the automatic channel scan, the receiver will return to the First Installation menu. Please select your language again and refer to chapter* **7.3** *for further instructions.*

5.0 QUICK GUIDE FOR USING YOUR RECEIVER

We at THOMSON understand that you can't wait to enjoy your new HD receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your THOMSON HD receiver.
To turn your receiver ON or to standby, use the ▼ button on the remote control or the button on the front panel.
Choose a channel with the ▲▼ buttons. Alternatively, you can digit the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list.
The volume can be adjusted with the ◀▶ buttons.

6.0 OPERATION

In viewing mode, several features are available to make watching TV a true pleasure. This paragraph describes these features. Please also read chapter **7** to get familiar with the menu of your new receiver.

6.1 Changing channels

There are different ways to change channels with your new receiver.
Via direct access
Via the channel list
Via the ▲▼ buttons.
Via the **RECALL** button.

6.1.1 Direct access

To gain direct access to a certain channel, simply input its number with the **0~9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel.

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6.1.2 Channel list

Press **OK** in viewing mode to display the channel list. Use ▲▼ to highlight your channel of choice and press **OK** once to select the highlighted channel. The channel list is equipped with a *Find* function to make it easier to find a certain channel. Press **RED** in the channel list. An alphabet banner will now be displayed. Use ▲▼ to select the first letter (or letters) of the channel and **OK** to confirm. All channels beginning with the chosen letter(s) will now be displayed. Close the alphabet banner by moving the highlight to **OK**. Now press **OK** and select the channel in the filtered list.

The following buttons are available in the channel list and viewing mode:

RED:	Opens an alphabet banner for quickly finding a channel
TV/RADIO:	Toggles between TV and radio channels
GOTO:	Opens the *Satellite List* for satellite selection
In viewing mode:	
FAV:	To switch to one of the available favourite lists.

6.1.3 Using the ▲▼ buttons

▲ will switch to a higher channel.
▼ will switch a lower channel.

6.1.4 Using the RECALL button

Use the **RECALL** button for switching between the last viewed channels. Please refer to section **7.6** for more details.

6.2 Info Banner

At any time during viewing mode you can press the ***i*** button to get information about the current channel as well as the current and following programme*. Press ***i*** twice to view detailed info on the current and following programmes and technical details about the current channel. Press ***i*** again or **EXIT** to close the information. You can change the on screen duration of the info banner in the *Option* menu. Please refer to section **7.5** for more details.

*Programme information is displayed when available. Availability depends on broadcast.

6.3 Selection of audio language

Some channels support a choice of different audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Use ▲▼ to select a stream and confirm with **OK**. With the ◀▶ buttons you can select between mono left, mono right or stereo audio.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TEXT** button in viewing mode and use the **0**~**9** or ▲▼ buttons to select the number of the page you want to see. Subpages (if loaded and available) can be selected with the ◀▶ buttons. The coloured buttons of the remote control allow you to jump to

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selected pages directly, as indicated on the bottom of the teletext screen. Press **TEXT** again or **EXIT** to go back to viewing mode.

6.5 Subtitles

Some programmes support a choice of different DVB subtitle languages. Press the **SUBTITLE** button in viewing mode to display a list of available subtitle languages. Use ▲▼ to select the subtitle language and confirm with **OK**.

6.6 Changing the Aspect Ratio

To change the *Aspect Ratio* while watching TV, simply press the **YELLOW** button in viewing mode. Each press will switch to the next format. Please refer to section 7.2 for more details.

6.7 Changing the resolution

To change the *Resolution* while watching TV, simply press the **GREEN** button in viewing mode. Each press will switch to the next format. Please refer to section 7.2 for more details.

6.8 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to watch programme schedules and information on screen. Press the **EPG** button to activate this guide (you can also enter the EPG via the menu, too). Use ▲▼ ◀▶ to select a channel and **RED** to move the highlight to the programme list. In the programme list, use ▲▼ to select or scroll through programmes and ◀▶ to display programme information for the next/previous days. Use **BLUE** to display detailed information about the selected programme. If there is more than one page of information, use ◀▶ to scroll.

NOTE: *Availability of EPG data depends on broadcast.*

Booking a programme from EPG

Select a programme as described above. Press **OK** when you have selected the programme. This will lead you to the Timer (*Schedule*) menu. All details are already filled in for you. Save the timer with **OK**. To display the list of booked events just press the **BLUE** button in the channel list part of the EPG or in viewing mode. Please refer to section 7.4.1 for more details.

6.9 Favourite channels

Use the **FAV** button to access your favourite channels and to toggle between available favourite groups. Please refer to section 7.1.1 for details on how to create favourite lists.

6.10 Changing between DTV/VCR contents

The receiver has the possibility to loop through the signal from the VCR SCART input to the TV SCART. This allows you to watch content from the connected DVD or VCR recorder via the receiver.

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Switching between DTV/VCR modes in operation mode is realized by using the **DTV/VCR** button. "AV IN" will be displayed on the front LED when receiver is in VCR mode. Press the **DTV/VCR** button again to return to the digital TV content. Please refer to *Loop Through* point in section **7.2** for more details.

7.0 MAIN MENU

7.1 Programme

Press **MENU** and select *Programme* using the ◀▶ buttons. Press **OK** or the ▼ button to enter the *Programme* submenu. Press **OK** or the ▶ button to edit programme settings. Press **EXIT** to exit the menu.

7.1.1 Programme Edit

To edit your programme preferences (lock, skip, favourite, move or delete), please go to the *Programme Edit* menu. This menu requires a password upon access. Enter your password or use the default password '0000' if you did not change it. Use ▲▼ ◀▶ to highlight a channel, **TV/RADIO** to toggle between TV and radio channel lists and **GOTO** to select a satellite (if more than one available).

Set favourite programme

Your receiver allows you to store channels in up to 4 favourite lists. Due to the large number of channels available on satellite nowadays, this can be a very useful function.

1. Highlight the preferred programme then press the **FAV** button.
   A *Favourite Type* window will pop up on screen. The following 4 groups are available: *Movie*, *News*, *Sport* and *Music*. Please select one (or more) of them. A star shaped symbol will appear and the programme is marked as a favourite. Press **EXIT** to return to the channel list for further selection.
2. Repeat the previous step to select more favourite programmes.
3. To confirm and exit the menu, press **EXIT**

Disable favourite TV or radio programme

Repeat step 1 described above and select *Disable* in the *Favourite Type* window.

View favourite programme

1. Press the **FAV** to display a list of favourite programmes in normal viewing mode (no menu mode). While in the favourite list, use ◀▶ to switch between available favourite lists.
2. Select your favourite programme with ▲▼ and press **OK** to switch to it.
3. Now you can select channels from the chosen favourite group only by pressing ▲▼ in viewing mode. If you want to change to the main channel list press **OK** in viewing mode and then press **GOTO** and select *All satellites*.

Delete a TV or radio programme

1. Select the programme you want to delete and press the **BLUE** button. A message will appear. Press **OK** to delete the programme or **EXIT** to cancel.
2. Repeat the previous step to delete more programmes.

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Skip TV or radio programme

1. Select the programme you want to skip and press the **GREEN** button.
2. The programme will be marked to skip. The receiver will skip this programme while zapping between programmes in normal viewing mode (in the channel list mode the skipped channels remain selectable).
3. Repeat the previous step to skip more programmes.
4. To confirm and exit the menu, press **EXIT**.

Disable a skipped TV or radio programme

Press the **GREEN** button on the programme marked with the skip symbol.

Move a TV or radio programme

1. Select the programme you want to move, then press the **RED** button. A move symbol will appear.
2. Press ▲▼ ◀▶ to move the programme.
3. Press **OK** or **RED** again to confirm the new position.
4. Repeat the steps above to move more channels.

Locking programmes

You can lock selected programmes for restricted view.

1. Select the programme you want to lock, then press the **YELLOW** button. The programme is now marked as locked.
2. Repeat the previous step to select more programmes
3. To confirm and exit the menu, press **EXIT**.

To view a locked programme, you need to enter either the default password '0000' or your last set password. We recommend changing the default password to one of your preference. Please refer to chapter **7.6 System** for more details.

Disable a locked TV or radio programme

Press the **YELLOW** button on the programme marked with the lock symbol.

Rename a TV or radio programme

1. Select the programme you want to rename and press the ***i*** button. A key table appears.
2. In the key table select a character by using the navigation buttons. Press **OK** to enter the character. When you have entered the new name, navigate to the "**OK**" button on screen and press **OK** on the remote control to confirm the new name.
3. To store the changes and exit the menu, press **EXIT**.

7.1.2 EPG (Electronic Programme Guide)

Please refer to section **6.8** above.

7.1.3 Sort

Here you can sort your channels in the following order:

Default:	Sort the channels in the original order
By Service Name:	Sort the channels in alphabetical order (A-Z)
By Frequency:	Sort the channels in frequency order (Low-High)

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By Encrypt: Sort the channels from free to scrambled

7.2 Picture

Press **MENU**, then select *Picture*. In this menu you can adjust the video settings. Press ▲▼ to select an option and ◀▶ to adjust the setting. Press **EXIT** to exit the menu.

Aspect Ratio

The default and recommended format is *Auto*. You can also set the display format to available settings like *4:3 Full Screen*, *4:3 Pan&Scan*, *4:3 Letter Box* and *16:9 Wide Screen*.

4:3 Letter Box: The full 16:9 picture will be displayed on your 4:3 TV set with black bars above and below the picture.
4:3 Pan&Scan: The centre of the 16:9 picture will be displayed full-screen on your 4:3 TV
4:3 Full Screen: Combination of Letter-box and *Pan&Scan*.
16:9 Wide Screen: Select when using a 16:9 TV set.

TIP: *You can change the video output format directly from viewing mode by pressing the* **YELLOW** *button on the remote control.*

Resolution

If the video does not appear correctly, change the setting. These settings match the most common settings for HDMI.

480i: for NTSC system TV.
480p: for NTSC system TV.
576i: for PAL system TV.
576p: for PAL system TV.
720p: for NTSC or PAL system TV.
1080i: for NTSC or PAL system TV.
1080p: for NTSC or PAL system TV.

TIP: *You can change the video resolution directly from viewing mode by pressing the* **GREEN** *button on the remote control.*

TV format

Set the standard corresponding to your TV set. Available options are: *PAL* and *NTSC*.

Video output

This setting is only relevant when the receiver is connected to the TV set via Scart. Select *RGB* for the best picture quality or *CVBS* in case your TV doesn't support *RGB*.

Loop through (VCR to TV Scart)

This option is only relevant if you have a device (video-/DVD-recorder) connected to the VCR scart connector of your receiver. Its signal will be looped through to

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the TV scart output of your receiver. Use this option to set the preferred loop-through mode.

Running mode: The Loop through will be switched off when the receiver is in standby mode.

Always: The Loop through is always on – in operation and in standby mode.

Switching between DTV/VCR contents in the operation mode is realized by using the **DTV/VCR** button on the remote control. "AV IN" will be displayed on the front LED display when the receiver is in VCR mode. Press the **DTV/VCR** button again to return to the digital TV content.

NOTE: *The setting "Always" increases the power consumption in standby mode. The front panel LED remains green in standby!*

7.3 Channel Search

To access the menu, press MENU and select Channel Search. It contains two options: *Installation* and *DB* (*Data Base*) *Management*. Select an option and press **OK** to enter it. Press **EXIT** to exit the menu.

7.3.1 Installation

7.3.2 Satellite Selection

Use the ▲▼ buttons to highlight the satellite your dish is aimed at. Its antenna settings will be shown at the right side. You can enter the right side with the ◀▶ buttons and return to the satellite list with **EXIT**.

7.3.3 Configure the antenna settings for selected satellite

LNB Type: Press ◀▶ or **OK** to show the list of LNB Types which is shown as frequencies. You also can enter customized frequencies with User Single or User Dual at the bottom of the list. The default setting is Universal LNB (09750/10600) – the most used on the market.

LNB Power: Use ◀▶ to set the LNB power. 13/18V is the setting for a Universal LNB.

22KHz: Use ◀▶ to switch the 22 KHz oscillator signal on or off. *Auto* is the setting for a Universal LNB.

Toneburst: To enable or disable the toneburst switcher if available.

DiSEqC1.0: To select the right port from up to 4 (if available) for the right LNB.

DiSEqC1.1: To select the right port from up to 16 (if available) for the right LNB.

Motor: If using a motor, use ◀▶ to select between *DiSEqC1.2* or *GOTOX* depending on the motor type you use. Then Press **OK** to show the menu to set the position or **GREEN** for location.

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DiSEqC1.2: Move the motor to the right position for locking the signal like explained below.
Move Continue: press ◀▶ for moving *West/East*. It will keep moving as long as the button is hold pressed. Pressing once moves in 1°step.
Move Step (1): press ◀▶ for moving *West/East* in 0.3° step.
Store Position: to store the current motor position for the selected satellite.
Goto Reference: to go to the reference 0° position.
DiSEqC1.3: Select DiSEqC1.3 with the ◀▶ buttons. Press **GREEN** to setup your location coordinates. A pop-up window will appear, in which the following settings can be made:
Location: Use ◀▶ to select one of the pre-set locations. Choose a location nearest to you. If you know the coordinates of your place of residence, you can choose *Manual* and make the following extra adjustments:
Longitude Direction: Choose *East* or *West*.
Longitude Angle: Use the **NUMERIC** buttons to enter the coordinate.
Lattitude Direction: Choose *North* or *South*.
Latitude Angle: Use the **NUMERIC** buttons to enter the coordinate.
Once all setting are made, press **EXIT** to save the data and leave the window.
Now press **OK** to enter the DiSEqC1.3 menu.
Move Auto will move the dish to the selected satellite automatically.
For *Move Continue*, *Move Step (1)* and *Goto Reference* please see explanation above.

7.3.4 Channel Scan

Automatic Scan

Single Satellite Scan: Press **BLUE** for *Scan*. A window with scan settings will be displayed.
Scan Mode: Use ◀▶ to select *Default*, *Blind Scan* or *NetWork*.
Default: All stored transponders in the memory will be scanned.
Blind Scan: Slow scan in 2 MHz steps. The receiver will first scan the whole frequency band to find the transponders it can lock on. After gathering all transponders, it scans the transponders one by one to get all available programmes.
NetWork: Network search will be performed – when network information is broadcasted, new transponders will be found and stored.
Crytped: Press ◀▶ to select *All Channels* (scrambled and free) or *FTA Channels* (free to air);
Service Type: Press ◀▶ to select *ALL*, *DTV* or *Radio*.
After configuring, press **OK** or **BLUE** again to start scanning with the selected settings.
Your receiver will now perform an automatic channel search with the scan progress shown on screen. During the channel search you can skip transponders by pressing the **MENU** button, or quit the scan process with **EXIT**. When the process

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has been completed, all found channels will be stored and the receiver will switch to the first found channel.

Multi-Satellites Scan: When using a multi feed antenna with more than 1 LNB, select the satellites your antenna is adjusted to with the **OK** button. The selected satellites will be marked by the symbol. Set the LNB inputs in the DiSEqC point and press **BLUE** for *Scan*. A window with scanning settings will be displayed. After configuring the settings like explained in Single Satellite Scan above, press **OK** or **BLUE** again to start Multi-Scan on all selected satellites.

7.3.5 Scanning by transponder (Manual Scan)

Press **GOTO** for displaying the transponder list of the highlighted satellite. By pressing **GOTO** again you switch back to the satellites list.

Single Transponder Scan: Use the ▲▼ buttons to highlight the transponder you want to scan. Press **BLUE** for *Scan*. A window with scanning settings will be displayed. After configuring the settings (explained in **7.3.1.3** above), press **OK** or **BLUE** again to start scanning the highlighted transponder. When the scan process has been completed, all found channels will be stored and the receiver will switch to the first found channel.

Multi-Transponder Scan: Select the transponders you want to scan with the **OK** button. The selected transponders will be marked with the " " symbol. Press **BLUE** for *Scan*. A window with scan settings will be displayed. After configuring the settings like explained in **7.3.1.2** above, press **OK** or **BLUE** again to start multi-scan on all selected transponders.

7.3.6 Satellite Edit options

Add satellites: Press **RED** to add a new satellite. In the pop-up banner, enter the satellite's name and position by using the navigation and numeric buttons.

Satellite Name: Press **OK** to enter text input mode. In the key table select a character by using the navigation buttons. Press **OK** to input the chosen character. When you have entered the name, navigate to the "**OK**" button on screen and press **OK** on the remote control to confirm the new name. Save the settings with **OK** or cancel with **EXIT**.

Edit satellites: Press **GREEN** to edit the focused satellite. For changing settings see explanation above. Confirm changes with **OK** or cancel with **EXIT**.

Delete satellite: Press **YELLOW** to delete the focused satellite. Press **OK** to confirm deleting or **EXIT** to cancel.

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7.3.7 Transponder Edit options

Transponders can only be edited when the transponder list is on screen. To do this, select the satellite you wish to edit and press **GOTO** to open the TP list. The options below are now available.

Add transponder: Press **RED** to add a new transponder. In the pop-up banner, enter the transponder´s data with the navigation and numeric buttons. Confirm the settings with **OK** or cancel with **EXIT**. An existing TP cannot be stored again under the same satellite.

Edit transponder: Press **GREEN** to edit the highlighted transponder. In the pop-up banner, change the transponder´s data with the navigation and numeric buttons. Confirm changes with **OK** or cancel with **EXIT**.

Delete transponder: Press **YELLOW** to delete the highlighted transponder. Press **OK** to confirm or **EXIT** to cancel.

7.3.8 DB Management

This menu allows you to save and reload the channel data base of your receiver from/to a USB-device. This very convenient feature enables you to save your personal settings like Channel-, Favourite-, Sat- and TP-lists on a USB storage device and load them back to the receiver later. This feature is especially helpful after unintentional changes or factory reset. In such cases just skip the *First Installation* by pressing **EXIT** in the *First Installation* and select the DB management menu.
Connect the USB storage device to you receiver and select one of the options:

7.3.9 Load from USB

Press **OK** for displaying the list with available DB files (if any stored before). The DB files *„xxxxx.DBM“* are shown with their built date (day and month). Select the DB file you want to load and confirm it with **OK**. If DB was loaded successfully (message appears on screen) the receiver switches automatically to the first stored channel and shows its content in the background. Press **EXIT** until the OSD menu disappears.

7.3.10 Backup to USB

Press **OK** to make a backup of the data base. A DBM-File *„xxxxx.DBM“*, with the current date (day and month), will be created on the USB-device. If DB was stored successfully, a message will be displayed on screen. Press **EXIT** until the OSD menu disappears.

7.4 Time and Date Settings

Press **MENU** and select *Time*. In this menu you can adjust the time and date settings.
Press ▲▼ to select an option and ◀▶ to adjust the setting. Press **EXIT** to exit the menu.

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Time Auto: Select *On* for automatic time and date updates from live signal or *Off* for entering them manually.
Time Zone: Select the Offset from GMT standard time.
Summer Time: Select *On* or *Off* depending on the year's period.
Date: Enter the date when Time Auto is set to *Off*.
Time: Enter the time when Time Auto is set to *Off*.

7.4.1 Timer (Schedule)

In this menu you can setup the schedule for automatic switching to defined channels at a particular date/time. The timer menu can be entered directly from viewing mode by pressing the **BLUE** button.

Add: Press **RED** to add a new booking. In the appearing dialog, select channel type and number, starting date and time, end time, repeat cycle (once, daily or weekly). for selecting the channel number you can use the ◀▶ or numeric buttons but also the fast channel Find option (**RED**). It allows you to enter the channel number by selecting the first letters of the channel´s name in the pop up window.

When you have entered all parameters, press **OK** to store your booking.

Edit: Press the **GREEN** button to edit an existing booking.
Delete: Press the **BLUE** button to delete a booking from the list. Press **OK** to confirm deleting or **EXIT** to cancel it.

NOTE: *You can set timers for programmes directly from the EPG. Please refer to section* **6.8** *for more details.*

7.5 Option

Press **MENU** and select *Option*. In this menu you can adjust the *OSD Language*, *Subtitle Language*, *Audio Language*, *Digital Audio* mode and *Banner Time*.
Select an option and press ◀▶ to adjust the setting.
Press **EXIT** to exit the menu.

OSD Language: Select the language for the On Screen Display.
Subtitle Language: Select subtitle language.
Audio Language: Select audio language for watching TV channels. If the language is not available, the default programme language will be used.
Digital Audio: Select the digital audio output mode. Settings affect both S/PDIF and HDMI outputs.

PCM – audio from any format will be converted to PCM format
RAW – audio from receiver will be send in original format
RAW (HDMI On) - As RAW, but also affects the HDMI output.
OFF – digital audio output disabled

Banner Time
Set the time-out for the info banner. Possible settings are: 1~10 seconds.

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7.6 System Settings

Press **MENU** and select *System*. In this menu you can adjust the system settings. Press ▲▼ to select an option and press ◀▶ to adjust the setting. Press **EXIT** to exit the menu.

Set Password

Set or change the password for locked programmes and menu access. Enter your old password or the default password '0000'. You will then be asked to enter your new password. To confirm, re-enter your new password. Press **EXIT** to exit the menu after confirming.

Restore Factory Default

Reset your receiver to the default factory settings.
Select *Restore Factory Default* in the main menu and press **OK** or ▶ to select. Enter your password or the default password '0000' and press **OK** to confirm. This option will delete all your channels and settings. The receiver will reboot and start with the *First Installation* menu.

WARNING: *A factory reset will permanently delete all your personal settings, timers and stored channels. Please consider this before you perform a factory reset.*

Information

Shows model, software and hardware information.

Recall List

Enable or disable the *Recall list* function, which supports multi-recall channel switching. If the status is set *ON* then, by pressing the **RECALL** button, a list of all previously selected channels will be displayed for new selection. If the status is set *OFF* then, by pressing **RECALL** button, the receiver will switch to the previously selected channel.

Software update

Select *Software Update* in the main menu and press **OK** or ▶ to select. There are two software update options available:

SW update by OTA

The OTA (Over the Air) function allows you to search for software updates available on satellite. Please ask your local THOMSON dealer or visit our website www.thomsonstb.net for more information.
In the *OTA* menu all necessary THOMSON OTA settings (*Satellite*, *Frequency*, *Symbol rate* and *Polarization*) are already set per default but could also be changed manually. Press **OK** to initiate the update process. An attention banner will now be displayed. Press **OK** to start the update (or **EXIT** to cancel it). Follow the instructions displayed on screen. The software searching and update process could take up to 20 minutes depending on the data volume in stream. After the process has been completed (also if no update was found) the receiver will reboot and start with the last shown channel.

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WARNING: *NEVER power off the receiver or pull the mains plug during the software upgrade process. Doing so might cause irreparable damage to your receiver and will void your warranty.*

SW update by USB

Download the required update file for your receiver model from our website www.thomsonstb.net (support page) or contact your local dealer.
Unzip the file on your computer, if necessary, and copy it to root folder of your USB storage device.
Connect the USB storage device to the USB port of the receiver. Press **MENU** and select *Software Update By USB*. Press **OK** to enter the software file list. Select the file containing the software image and press **OK** to initiate the software update. An attention banner will now be displayed. Press **OK** to start the update (or **EXIT** to cancel it). Follow the instructions displayed on screen. The update process will take some time. Once the update has been completed the receiver will display "Software Upgrade Complete. Please Restart". Unplug the receiver from the mains and plug it in again. Your updated receiver will start with the last shown channel.

WARNING: *NEVER power off the receiver or remove the USB device during the software update process. Doing so might cause irreparable damage to your receiver and will void your warranty.*

Auto Standby

Auto standby is a new, power saving feature that helps you reduce power consumption. It will switch off the receiver when no command is given for a defined period of time. It is set per default to 180 minutes. With the ◀▶ buttons you can choose between different time intervals or *Off* for disabling the feature. In the *0000* mode you can enter the desired auto standby time by using the **0**~**9** buttons.

NOTE: *If there are timers running, the auto standby function will be disabled for the booked time.*

7.7 USB

Press **MENU** and select *USB*. The menu provides *Multimedia* features to playback *Music*, *Photo* and *Movie*. The different supported file formats are listed below. In this menu you can also see information about the total and free space of the connected USB device, make video and photo configurations and format the USB device into a format accepted by the receiver. The unit supports USB devices with FAT and FAT32 format. Make sure your USB device is correctly formatted.

NOTE:

THOMSON cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assumes no responsibility for any loss of data that may occur when connected to this unit.

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With large amounts of data, it may take longer for the system to read the contents of a USB device.
Some USB devices may not be properly recognized. Even when they are in a supported format, some files may not play or display depending on the content.

7.7.1 Multimedia

If there is no USB device plugged in, a warning message "No USB Device is Found" will be displayed. When a USB device is detected you can choose between *Music*, *Photo* and *Movie* in this menu. Select one of them, press **OK** to enter the file browser and select the file you wish to be played.
Music – supported file formats are MP3 and WMA.
Photo – supported file formats are JPG and BMP
Movie – supported video files in various formats (MPG, MPEG, TS, VOB, MP4, AVI,...)*

Music

Select a music file and press **OK** to start playback.
During playback following functions are available:

▶ *or* **OK**:	Start playback of the selected file.
II:	To pause/resume playback and ■ to stop it.
◀◀ ▶▶:	To rewind or forward playback in x2, x4, x8, x16 and x32 speed. When it has fast rewinded to the beginning, playback of the current file will be resumed. When it has fast forwarded to the end, playback of the next file starts.
GOTO:	Opens a counter banner for entering the time moment you want to jump to. Use the **0**~**9** buttons for entering the time and **OK** to confirm.
⏮ ⏭:	Start playback of the previous/next file.
REPEAT:	Press once for single file repeat, twice to repeat all files or three times for random playing. The symbol for the selected repeat mode will appear at the top of the screen. Press once again to return to the common play mode.
RECALL:	Goes to the parent folder.
EXIT:	To get back to the *Multimedia* menu. Press **EXIT** again if you want to leave the *Multimedia* menu.

TIP: *Playback of music will continue as long as the Multimedia menu is active. This allows you to listen to music while watching photos. Just exit of the Music submenu and select the slide mode in the Photo submenu like explained below.*

Photo

Your receiver allows you to watch a slide show with all available photos in the chosen folder. To use the slide show choose a folder with photo files. Press ▶ to start the slide show and ■ or **EXIT** to stop. See the different *Photo Configure* options explained in point **7.7.2** below.

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In the *Photo* mode following functions are available:

OK	Opens selected photo in full screen format.
▶	Starts the slide show
⏸	To pause/resume the slide show.
■ *or* EXIT	To close the full screen format or to the stop slide show and return to the folder view.
i	To open/close the photo details banner while in full screen or slide show mode.
RED	To zoom a photo (use ▲▼ ◀▶ to navigate to a certain part of the zoomed picture).
GREEN	To turn the photo counter clockwise.
YELLOW	To turn the photo clockwise.
GOTO	Opens a grid view (to go back press EXIT)
RECALL	Goes to the parent folder.
⏮ ⏭	Open the previous/next photo.
REPEAT	The functionality is explained in the *Music* section above. When you enter the *Photo* menu while listening to music, then tmusic playback will automatically switch to the repeat all mode. You can now enjoy pictures while listening to music and use all the repeat functions for photo playback in the slide show mode.
EXIT*:*	To get back to the *Multimedia* menu. Press EXIT again if you want to leave the *Multimedia* menu.

Movie

In the *Movie* menu you have to navigate to a movie file.
Select the file and press OK to start playback in the preview mode. Use the RED button to switch between preview and full screen. Use RECALL to go to the parent folder.
During playback you can use the playback control buttons, such as ⏸, ▶, ■, ◀◀, ▶▶, ⏮ and ⏭. You can check file details by pressing the *i* button in full screen mode. To close the banner, use *i* again or press EXIT. Use the GOTO button and enter the time moment you want to jump to with the 0~9 buttons, then press OK to confirm. With the ◀◀ ▶▶ buttons you can rewind or forward playback in x2, x4, x8, x16 and x32 speed. When it has fast rewinded to the beginning, playback of the current file will be resumed. When it has fast forwarded to the end, playback of the next file starts. With the ⏮ ⏭ buttons you can jump to the previous/next video file. In the *Movie* mode it is also possible to use the REPEAT button (its functionality is explained in the *Music* section above).

*THOMSON cannot guarantee the playback of video files although extensions are listed here, as the correct playback depends on codec used, data bit rate and resolution as well. Please consult the THOMSON Hotline in your country to get more details.

7.7.2 Photo Configure

Slide Time:	You can adjust the slide show interval to 1~8 seconds.
Slide Mode:	You can select one of the 60 slide show effects or *Random* (mixed effects).
Aspect Ratio:	Keep - displays the picture in its original aspect

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Discard - displays the picture in full screen mode.

7.7.3 Movie Subtitle

This subtitle function is only relevant in the *Movie* menu for movies which contains subtitle files in.srt or txt format.
During playback, press **SUBTITLE** to select language and confirm with **OK**. During playback of *Movie* files you can press **SUBTITLE** twice to change the subtitle settings described below:

Subtitle Specific:	Choose subtitle size between *Small*, *Normal* and *Big*.
Subtitle BG:	Choose subtitle background between *White*, *Transparent*, *Gray* and *Yellow-Green*.
Subtitle Font Colour:	Choose subtitle font colour between *Red*, *Blue*, *Green*, *White* and *Black*.

7.7.4 Format

WARNING: *The format function will delete all data and information from your USB device or selected partition. THOMSON will not take any responsibility for damaged or lost data on the USB device.*

If you have multiple partitions on your storage device, select the partition you want to format and press **OK** to continue. An attention banner will now be displayed. Press **OK** to start formatting (or **EXIT** to cancel). The format procedure will take some time, depending on the size of the used storage device. At the end of process the “Formatting is complete” message will appear. Press **EXIT** to exit the menu.

8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Please check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local Service line or THOMSON dealer. Alternatively you can send a support mail via our website: www.thomsonstb.net. NEVER open or disassemble your receiver. This may cause a dangerous situation and will void the warranty.

PROBLEM	POSSIBLE CAUSE	WHAT TO DO
Standby indicator does not light up	Mains lead unplugged/ multipoint connector switched off.	Check mains lead/switch multipoint connector on.
	Front panel switch is in OFF position.	Set front panel switch to ON position.

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PROBLEM	POSSIBLE CAUSE	WHAT TO DO
No picture	The receiver can't receive signal.	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly.
	Incorrect values of some tuner parameters.	Set the values of tuner parameters correctly in the *Installation* menu
	Wrong direction of the dish.	Check the signal strength and adjust your dish correctly.
No picture or sound on TV	Input is not selected on your TV.	Switch to correct TV input.
	TV or VCR is not connected to main. Bad cable connection.	Check mains lead. Firmly plug in cables between receiver and TV.
	Audio muting.	Press the **MUTE** button.
	The receiver is switched to DVD/VCR SCART input	Press **DTV/VCR** button.
	TV power off.	Turn TV on.
Scrambled channel message	Channel is scrambled.	Select alternative channel.
No response to remote control	Receiver off.	Plug in and turn on plug.
	Handset not aimed correctly.	Aim handset at IR sensor.
	IR sensor obstructed.	Check for obstructions.
	Hand set batteries exhausted.	Replace handset batteries.
Password forgotten		Contact local Service Hotline or send email to our Support via www.thomsonstb.net
The external USB HDD does not start.	Power consumption is too high.	Connect an extra power supply adapter to your USB HDD device.
The receiver switches to stand-by automatically.	The *Auto Standby* function is activated and reached the adjusted time (default 3h).	In the *System -> Auto Standby* menu you can adjust the auto power down time or disable it.

9.0 SPECIFICATIONS

Demodulator

Demodulation:	QPSK, 8PSK
Input symbol rate:	DVB-S QPSK: 1 ~ 45 Ms/s DVB-S2 8PSK/QPSK: 10~30 Ms/s

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FEC decoder:	Auto, 1/2, 2/3, 3/4, 5/6, 7/8 in DVB-S mode 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 in DVB-S2 mode 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 in 8PSK mode

Video Decoder

Profile level:	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC
Input rate:	Max. 20 Mbit/s
Aspect ratio:	4:3 and 16:9, Pan & Scan, Pillarbox Letterbox, Auto
Video resolution:	PAL 50Hz: 576i, 576p, 720p, 1080i, 1080p NTSC 60Hz: 480i, 480p, 720p, 1080i,1080p

Audio Decoder

Audio decoding:	MPEG-1 Layer 1 & 2, AC3 Downmix
Audio mode:	Mono L/R, Stereo, AC3
Sampling rate:	32, 44.1, 48 kHz

Tuner

Type1 F Type, IEC169-24, Female

Input frequency range:	950 – 2150 MHz
RF impedance:	75 Ohm unbalanced
Signal level:	-65 to -25 dBm
LNB power:	13/18 V DC (+/- 5%), max. 0.5 A, overload protected
DiSEqC versions:	1.0, 1.1, 1.2, 1.3, Tone burst

System & Memory

Main processor:	MSTAR MSD7816
Flash memory:	4 MBytes
System memory:	64 MBytes

Multimedia

Video playback:	Supported in various formats (MPG, MPEG, TS, VOB, MP4, AVI…)*
Audio playback:	MP3, WMA formats
Picture view:	JPG, BMP formats

* THOMSON cannot guarantee the playback of video files although extensions are listed here, as it depends on codec used, data bit rate and resolution.

Connectors

SAT IN
SAT OUT
HDMI (V/A -Output) Type A -Version: 1.0
TV SCART (RGB, CVBS, Audio L/R output with volume control)
DVD/VCR SCART (CVBS, Audio L/R)
S/PDIF Dolby Digital Out (Coaxial)
USB 2.0, Type A Connector

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General Data

Input voltage range:	100 – 240 V AC 50/60 Hz
Power consumption:	max. 18 W, typ. 6 W
Power consumption in standby:	max. 1.00 W
Operating temperature:	0 ~ +40 °C
Storage temperature:	-10 ~ +50 °C
Operating humidity range:	10 ~ 85% RH, Non-condensing
Size (W x D x H) in mm:	224 x 164 x 44
Weight:	0.63 kg